Serial No. 10/629,746 Group Art Unit: 3635

Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 2-

RECEIVED CENTRAL FAX CENTER

MAY 1 5 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Currently Amended) A formwork system for fabricating a slab composite floor or 1. roof from a construction material having both unhardened and hardened states, said system comprising:
 - a) a form panel unit comprising:
 - i. a panel member adapted for use as part of a form to retain said construction material when in an unhardened state, said panel member having generally opposed upper and lower surfaces;
 - ii. at least one reinforcement unit having at least one reinforcement member mounted above said upper surface of for reinforcing said panel member and interconnected to said panel member;
 - b) a pair of at least one spaced structural supporting members member oriented generally longitudinally and adapted for assisting in supporting said slab made form panel unit when fabricating said floor or roof with said construction material in said unhardened state;

said form panel unit being configured such that said panel member can be positioned between said supported at least partially by said at least one spaced structural supporting members member, such that said unhardened construction material can be retained above upper surface of said panel member to permit hardening of said construction material May-15-07 03:59pm From- T-920 P.009/040 F-607

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 3-

from said unhardened state to said hardened state, said reinforcement member unit oriented generally transversely to said at least one structural supporting member and having a portion being mounted on said at least one of said structural supporting members member such that said panel member is at least in part suspended from supported by said at least one structural supporting member, and wherein said at least one structural supporting member, and wherein said at least one structural supporting member has an upper a portion extending located above said upper surface of said panel member so [[it]] said portion can be embedded in said construction material.

- 2. (Currently Amended) A system as claimed in claim 1 wherein said reinforcement unit comprises a reinforcement member [[is]] mounted in a position such that said reinforcement member has a portion positioned above said upper surface of said panel member that is spaced-apart from said upper surface of said panel member.
- 3. (Currently Amended) A system as claimed in claim 2 wherein said panel member has a pair of opposed, transversely spaced, longitudinally extending side edges, extending between a transversely extending rear edge and a transversely extending front edge and said system comprises a plurality of reinforcement units being generally transversely oriented and longitudinally spaced, and wherein each of said plurality of reinforcement units has a first portion mounted on said at least one supporting members, and a second portion mounted on the other of said pair of supporting

T-920 P.010/040 F-607

May-15-07 03:59pm From-

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 4-

members, whereby said-panel-member can be suspended from said-pair of supporting members.

- 4. (Currently Amended) A system as claimed in claim 1 wherein reinforcement unit has a reinforcement member and wherein said panel member has a side edge and said reinforcement member having an extension portion extending beyond said side edge of said panel member, said extension portion being mounted on said at least one [[of]] said supporting members member such that said panel member is suspended from said at least one supporting member.
- (Currently Amended) A system as claimed in claim 3 wherein each of said plurality of reinforcement units comprises at least one vertical rod secured to said reinforcement member, each said vertical rod also being secured to said panel member with a connector.
- 6. (Currently Amended) A system as claimed in claim 1 wherein said at least one structural supporting member comprises first and second spaced structural supporting members and said system further comprises a plurality of ge'nerally longitudinally spaced longitudinal, generally transversely oriented reinforcement units, each of said plurality of reinforcement units having a portion mounted on said at least one of said first and second structural supporting members, and a second portion mounted on the other of said pair of first and second structural supporting members, whereby said

May-15-07 03:59pm From- T-920 P.011/040 F-607

Serial No. 10/629,746 Group Art Unit: 3635 Arndt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 5-

panel member can be suspended-from supported by said pair of supporting members with said plurality of reinforcement units.

- 7. (Currently Amended) A system as claimed in claim 6 wherein said plurality of reinforcement units each comprises a plurality of vertical [[rod]] rods secured to a reinforcement member, said vertical [[rod]] rods also being secured to said panel member, said vertical rods passing from said upper surface of said panel member toward lower surface of panel and engaging a connector which assists in supporting said panel member when construction material in said unhardened state is retained above said panel member.
- 8. (Currently Amended) A system as claimed in claim [[4]] 6 wherein said extension portion of said reinforcement member is a first extension portion, and said reinforcement member has a second end portion opposite to said first end portion, one of said first and second end portions supported on one of one of said pair of first and second structural supporting members, and the other of said first and second end portions supported on the other of said pair of first and second structural supporting members, and wherein panel member is suspended from and between said pair of first and second structural supporting members, and wherein each of said pair of first and second structural supporting members has an upper portion extending above said upper surface of said panel member so as to be embedded in said construction material when said construction material is in said hardened state.

Serial No. 10/629,746 Group Art Unit: 3635 Arndt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 6-

- 9. (Canceled).
- 10. (Canceled).
- 11. (Canceled).
- 12. (Currently Amended) A system as claimed in claim [[10]] 6 wherein [[said]] each of said first and second structural supporting members comprises a generally C-shaped channel members member each [[have]] having an upper transverse oriented surface, and wherein said reinforcement member has a first end portion, and a second end portion opposite to said first end portion, said first and second portions each supported in part by a transverse surface of one of said pair of first and second supporting members.
- 13. (Currently Amended) A system as claimed in claim 12 wherein said first and second end portions of said reinforcement member extend over each of said respective structural supporting members.
- 14. (Canceled).
- 15. (Original) A system as claimed in claim 1 wherein said panel member is made at least in part from a foam plastic.

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 7-

- 16. (Currently Amended) A system as claimed in claim [[11]] 15 wherein said foam plastic is a foam polystyrene.
- 17. (Canceled).
- 18. (Canceled).
- 19. (Canceled).
- 20. (Canceled).
- 21. (Original) A system as claimed in claim 1 wherein said panel member comprises a plate member.
- 22. (Currently Amended) A system as claimed in claim 21 wherein said reinforcement
 unit comprises a reinforcement member and said system further comprising comprises
 a bracket member secured to both said plate member and said reinforcement member,
 said bracket member holding said reinforcement member in spaced relation to said
 upper surface of said plate member.
- 23. (Original) A system as claimed in claim 22 wherein said reinforcement member is a first reinforcement member and said reinforcement unit further comprises a second

T-920 P.014/040 F-607

May-15-07 04:00pm From-

Serial No. 10/629,746 Group Art Unit: 3635

Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 8-

reinforcement member mounted to said panel member above said upper surface in generally parallel relation to said first reinforcement member, said second reinforcement member extending beyond said side surface of said panel member, and wherein said bracket member holds said first and second reinforcement members in spaced relation to said upper surface of said plate member.

- 24. (Currently Amended) A system as claimed in claim 5 wherein each of said at least one vertical rods is secured to said reinforcement member at least in part in part with a connector.
- 25. (Original) A system as claimed in claim 1 wherein said construction material comprises concrete.
- 26. (Canceled).
- 27. (Canceled).
- 28. (Canceled).
- 29. (Currently Amended) A system as claimed in claim 1 wherein said portion of said reinforcement member unit is supported directly upon a surface of said at least one structural supporting member.

May-15-07 04:00pm From-

Serial No. 10/629,746 Group Art Unit: 3635 Arndt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 9-

- 30. (Currently Amended) A system as claimed in claim 4 wherein said extension portion of said reinforcement member is supported directly upon a surface of said at least one structural supporting member.
- 31. (Currently Amended) A system as claimed in claim 30 wherein said extension portion of said reinforcement member is supported directly upon an upward facing surface of a transverse web portion of said at least one <u>structural</u> supporting member.
- 32. (Canceled).
- 33. (Canceled).
- 34. (Original) A system as claimed in claim 16 wherein said upper and lower surfaces are laminated with a strength enhancing skin.
- 35. (Original) A system as claimed in claim 34 wherein said skin is made from polypropylene or polyethylene.
- 36. (Canceled).
- 37. (Canceled).
- 38. (Canceled).

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 10-

39. (Canceled). 40. (Canceled). (Canceled). 41. 42. (Canceled). (Canceled). 43. (Canceled). 44. (Canceled). 45. (Withdrawn) A structural slab comprising: 46. a) a construction material; b) a form panel unit comprising i. a panel member having an upper surface and forming at least part of a form; ii. at least one reinforcement unit having at least one reinforcement member mounted to said panel member above said upper surface of said panel member; c) first and second spaced structural supporting members adapted to assist in

supporting said slab made from said construction material;

T-920 P.017/040 F-607

Serial No. 10/629,746 Group Art Unit: 3635 Arndt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 11-

said panel member being suspended from said first and second supporting members on said reinforcement member, said construction material enveloping at least an upper portion of said supporting members and said reinforcement member.

- 47. (Withdrawn) A method for fabricating a slab from a construction material having both hardened and unhardened states using formwork system, said formwork system comprising:
 - a panel member adapted for use as a form to retain said construction material in an unhardened state, said panel having generally opposed upper and lower surfaces; at least one reinforcement unit each having at least one reinforcement member
 - b) first and second structural supporting members adapted to assist in supporting said slab made from said construction material;

said method comprising the steps of

mounted to said panel member above said upper surface;

a) a form panel unit comprising

- (i) arranging the first and second structural support members in a spaced relation suitable for supporting said panel member;
- (ii) positioning said reinforcement unit such that said panel member is suspended from said first and second spaced structural supporting members, such that said unhardened construction material can be retained above said panel member to permit hardening from said unhardened state to said hardened state of said construction material, and such that said reinforcement member is supported at least

Serial No. 10/629,746 Group Art Unit: 3635

Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 12-

in part by said supporting members and said panel member is suspended from said supporting members on said reinforcement member above said upper surface.

- 48. (Withdrawn) A method as claimed in claim 47 wherein said reinforcement unit is positioned such that said supporting members have upper portions extending above said upper surface of said panel member; and further comprising the step (iii) wherein unhardened construction material is placed into said formwork above said upper surface of said panel so as to embed said upper portions of said supporting members in said construction material.
- 49. (Withdrawn) A method as claimed in claim 48 wherein said first and second supporting members comprise members having transverse web portions oriented in the same transverse direction, and wherein said step of positioning said reinforcement unit comprises:
 - positioning a first side edge of said panel member beneath said transverse web portion with, at least in part, a transverse movement of said reinforcement unit;
 pivoting said reinforcement unit downwards about a longitudinal axis located proximate said first side edge.
- 50. (Withdrawn) A method as claimed in claim 49 wherein, in positioning said first side edge of said panel member beneath said transverse web portion with, at least in part, a

Reply to Office Action of January 16, 2007

-Page 13-

transverse movement of said reinforcement unit, said reinforcement member is supported upon said first supporting member.

- 51. (Withdrawn) A method as claimed in claim 50 wherein, having pivoted said reinforcement unit downwards about a longitudinal axis located proximate said first side edge, said reinforcement member is supported upon said second supporting member.
- 52. (Currently Amended) A system for fabricating a slab from a construction material having both-unhardened and hardened states, said system formwork assembly comprising:
 - a) a form panel unit comprising comprising:
 - i. first and second panel members, each adapted for use as a form to retain said construction material when in a unhardened state, each said first and second panel members having generally opposed inner and outer surfaces, and opposed first and second side surfaces, said first and second panel members being arranged in spaced, generally aligned relation with the inner surface of said first panel arranged in face to face relation with the inner surface of said second panel;
 - ii. at least one reinforcement unit each having at least one reinforcement
 member mounted to both integrated with each of said first and second panel member
 between said inner-surfaces of said first and second panels, said reinforcement
 member extending beyond at least one of said first and second side surfaces of said

Serial No. 10/629,746 Group Art Unit: 3635

Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 14-

first panel member members and generally oriented transversely;

- b) a pair of spaced structural supporting members adapted for at least partially supporting said slab concrete floor or roof made from said construction material; said form panel unit being configured such that said first panel member can be positioned between said spaced structural supporting members, such that said liquid unhardened construction material can be retained between said first and second panel members, between on said structural supporting members to permit hardening from said liquid unhardened state to said hardened state of said construction material, said reinforcement member being supported at least in part by said supporting members such that said first panel member is suspended from said and second panel members are supported at least in part by said supporting members on said-reinforcement member.
- 53. (Withdrawn) A method for fabricating a slab from a construction material having both hardened and unhardened states using formwork system, said formwork system comprising:
 - a) a form panel unit comprising
 - a panel member adapted for use as a form to retain said construction material when in a liquid state, said panel having generally opposed upper and lower surfaces, and opposed first and second side surfaces;
 - at least one reinforcement unit each having at least one reinforcement member mounted to said panel member above said upper surface;

Reply to Office Action of January 16, 2007

-Page 15-

- b) first and second supporting members adapted to assist in supporting said slab made from said construction material;
- said method comprising the steps of
- (1) arranging the first and second structural support members in a spaced relation suitable for receiving said panel member therebetween;
- (2) suspending said panel member between said pair of supporting members on said reinforcement member, such that said panel member is located between said first and second spaced structural supporting members and said unhardened construction material can be retained above said panel member.
- 54. (Withdrawn) A method as claimed in claim 53 wherein said reinforcement unit is positioned such that said supporting members have upper portions extending above said upper surface of said panel member; and further comprising the step (3) wherein unhardened construction material is placed into said formwork above said upper surface of said panel so as to embed said upper portions of said supporting members in said construction material.
- (Currently Amended) A formwork assembly for fabricating a slab from a construction material having both unhardened and hardened states, said assembly comprising:a) a form panel unit comprising:
 - \underline{i} a panel member having generally opposed upper and lower surfaces, said panel member being adapted to be used as part of a form to retain said construction

Reply to Office Action of January 16, 2007

-Page 16-

material above said upper surface when in an unhardened state;

ii. a reinforcement unit having at least one reinforcement member mounted above said upper surface of generally oriented transversely, said reinforcement unit being integrated with said panel member to support said panel member;

b) a pair of supporting members oriented generally longitudinally and adapted for assisting in supporting said slab made from said construction material form panel unit during fabrication of said slab;

said panel member being suspended between supported at least in part on said pair of supporting members [[on]] by said reinforcement member, such that said unhardened construction material can be retained above said panel member during said fabrication.

- of said supporting members comprises a longitudinally extending upstanding web having a plurality of apertures positioned such that unhardened construction material will flow into said apertures to provide an anchor for said at least one supporting members member.
- 57. (Canceled).
- 58. (Canceled).

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 17-

59.	(Canceled).					
60.	(Canceled).		·		•	
61.	(Canceled).	·		÷		
62.	(Canceled).					
63.	(Canceled).					
64.	(Canceled).					
65.	(Canceled).					
66.	(Canceled).					
67.	(Canceled).					
68.	(Canceled).					

Serial No. 10/629,746 Group Art Unit: 3635

Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 18-

- 69. (Withdrawn Currently Amended) A panel unit as claimed in claim 72 wherein said at least one supporting member comprises a structural elongated support member for use in supporting a concrete slab said panel unit, said support member having an upstanding web having an upper elongated web portion, said upper web portion having a plurality of spaced apertures disposed along said elongated upper web portion.
- 70. (Withdrawn Currently Amended) A member as claimed in claim 69 wherein at least

 a part of said upper web portion is oriented at an angle of approximately 90 degrees to
 a remaining medial portion of said web.
- 71. (Withdrawn) A member as claimed in claim 69 wherein said support member has a pair of joined, upstanding webs configured in a generally U-shaped configuration, each upstanding web having an upper elongated web portion, said upper web portions having a plurality of spaced apertures disposed along said elongated upper web portion.
- 72. (New) A system as claimed in claim 2 wherein said portion positioned above said upper surface of said panel member is spaced apart from said upper surface of said panel member to reinforce said floor or roof when said construction material in a hardened state.

May-15-07 04:02pm From-

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 19-

- 73. (New) A system as claimed in claim 1 wherein said reinforcement unit comprises first and second members and panel is compressed between said first and second members.
- 74. (New) A system as claimed in claim 3 wherein each of said plurality of reinforcement units comprises first and second members and panel is compressed between each of said first and second members.
- 75. (New) A formwork system for fabricating a floor or roof from a construction material having both unhardened and hardened states, said system comprising:
 - a) a form panel unit comprising:

i. a panel member adapted for use as part of a form, to retain above, and support a load associated with, said construction material when in an unhardened state, said panel member having generally opposed upper and lower surfaces;

ii. at least one reinforcement unit having at least one member for strengthening said panel member, said at least one member being oriented generally in a first direction;

b) at least one structural supporting member oriented in a second direction that is generally perpendicular to said first direction;

said form panel unit being configured such that said panel member can be supported at least partially by said at least structural supporting member, such that said unhardened construction material can be retained above upper surface of said panel member to permit hardening of said construction material from said unhardened state to said hardened state,

Serial No. 10/629,746 Group Art Unit: 3635

Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 20-

wherein at least a part of said load associated with said panel member is transferred to

said reinforcement member and wherein the reinforcement member in turns transfers at

least part of the load to said at least one supporting member, such that said panel member

is at least in part supported by said at least one structural supporting member.

76. (New) A system as claimed in claim 75 wherein said strengthening member is mounted

in a position such that said strengthening member has a portion positioned above said

upper surface of said panel member.

77. (New) A system as claimed in claim 75 wherein said strengthening member is positioned

and spaced from said upper surface of said panel member such that said strengthening

member reinforces said floor or roof when said construction material is in said hardened

state.

78. (New) A system as claimed in claim 75 wherein said system comprises a plurality of

reinforcement units each being generally transversely oriented and longitudinally spaced

from each other and said plurality of reinforcement units being supported at least in part

by said at least one structural supporting member such that said panel member is at least

in part supported by said at least one structural supporting member.

79. (New) A system as claimed in claim 76 wherein at least one structural supporting member

comprises first and second structural support members both oriented generally in said

Serial No. 10/629,746 Group Art Unit: 3635

Amdt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 21-

second direction that is generally orthogonal to said first direction, and both said first and second structural supporting members being adapted for assisting in supporting said form panel unit when fabricating said floor or roof from said construction material in said unhardened state and wherein each of said plurality of reinforcement members is supported at least in part by both of said first and second structural supporting members such that said panel member is at least in part supported by said first and second structural supporting members.

- 80. (New) A system as claimed in claim 76 wherein said panel member is made at least in part from a foam plastic.
- 81. (New) A system as claimed in claim 80 wherein said foam plastic is a foamed polystyrene.
- 82. (New) A system as claimed in claim 80 wherein said upper and lower surfaces are laminated with a strength enhancing skin.
- 83. (New) A system as claimed in claim 82 wherein said skin is made from polypropylene or polyethylene.
- 84. (New) A form panel unit for use in fabricating a slab from a construction material having both unhardened and hardened states, said form panel unit comprising:

Reply to Office Action of January 16, 2007

-Page 22-

i. a panel member having upper and lower surfaces, said upper surface having a shape, said panel member being adapted to be used as part of a form to retain said construction material above said upper surface in an unhardened state, the shape of said upper surface of said panel member defining at least in part the shape of said slab when said construction material in said hardened shape;

ii. at least one, generally transversely oriented reinforcement unit, each reinforcement unit for reinforcing said panel member and having at least one panel support member having a portion for engagement with a structural supporting member oriented generally transverse to said panel support member;

said panel unit being supported at least in part on said structural supporting member by said panel support member oriented generally transversely to said structural supporting member, such that said unhardened construction material can be retained above and be supported at least in part by said panel member.

85. (New) A panel unit as claimed in claim 84 wherein said reinforcement units each comprise at least one connecting member that passes from said upper surface of said panel member toward said lower surface of said panel member and engages a connector which assists in supporting said panel member when unhardened construction material is retained above said panel member, said at least one connecting member being interconnected to said at least one panel member.

Reply to Office Action of January 16, 2007

-Page 23-

- 86. (New) A panel unit as claimed in claim 85 further comprising an upper compression member positioned above said upper surface of said panel member, whereby said panel member is compressed between each said connector and said upper compression member.
- 87. (New) A panel unit as claimed in claim 85 wherein said panel member is made at least in part from a foam plastic.
- 88. (New) A panel unit as claimed in claim 87 wherein said foam plastic is a foam polystyrene.
- 89. (New) A panel unit as claimed in claim 88 wherein said upper and lower surfaces are laminated with a strength enhancing skin.
- 90. (New) A panel unit as claimed in claim 89 wherein said skin is made from polypropylene or polyethylene.
- 91. (New) A formwork assembly for fabricating a composite floor or roof from a construction material, said construction material having both hardened and unhardened states, said assembly comprising:
 - a) a panel unit comprising:
 - i. a panel member;

Reply to Office Action of January 16, 2007

-Page 24-

ii. at least one panel reinforcement unit having at least one transversely oriented panel support member integrated with said panel member for reinforcing said panel member;

b) at least one structural support member adapted to support at least in part said panel unit during said fabrication of said floor or roof when said construction material is in an unhardened state;

said panel member and said unhardened construction material being supported at least in part by said transversely oriented panel support member, said transversely oriented panel support member being supported at least in part on said at least one structural supporting member, said construction material enveloping at least an upper portion of said at least one structural supporting member when said construction material is in said hardened state.

- 92. (New) An assembly as claimed in claim 91 wherein said panel support member is also adapted to reinforce the concrete floor or roof and being enveloped by said construction material when said construction material is in said hardened state.
- 93. (New) A system as claimed in claim 7 further comprising a spacer member positioned above said upper surface of said panel member, whereby said panel member is compressed between each said connector and said spacer member.

Reply to Office Action of January 16, 2007

-Page 25-

- 94. (New) An assembly as claimed in claim 55 wherein said reinforcement member is also positioned to be enveloped by said construction material when said construction material is in said hardened state.
- 95. (New) A panel unit for use in fabricating a structural ribbed reinforced floor from a construction material having both unhardened and hardened states, said form panel unit comprising:
 - i. a panel member having an upper surface, said panel member being adapted to be used as part of a form to retain said construction material in an unhardened state, said panel member having a longitudinally oriented depression in said upper surface;
 - ii. at least one transversely oriented reinforcement unit for reinforcing said panel member and having at least one panel support member having a portion for engagement with a structural supporting member oriented generally transverse to said support member and oriented generally transverse to the general orientation of said depression of said upper surface of said panel member.

said panel unit being configured such that said panel member may be supported on at least one structural supporting member by said at least one panel support member, such that said unhardened construction material can be retained above said upper surface and be supported at least in part by said panel member.

96. (New) A panel unit as claimed in claim 95 wherein said depression is a generally downwardly angled portion is located at a longitudinal side edge of said upper surface.

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 26-

- 97. (New) A panel unit as claimed in claim 96 wherein said downwardly angled portion is oriented generally orthogonal to said generally transversely oriented reinforcement units.
- 98. (New) A form panel unit as claimed in claim 95 wherein said at least one transversely oriented reinforcement unit comprises a plurality of discrete, transversely oriented reinforcement units.
- 99. (New) A formwork system for constructing a ribbed composite floor or roof comprising a one-way slab fabricated from a construction material having both unhardened and hardened states, and said floor or roof having a plurality of rib members, said system comprising:
 - a) a form panel unit comprising:
 - i. a panel member adapted for use as part of a form to retain said construction material when in an unhardened state, said panel member having generally opposed upper and lower surfaces, said upper surface providing in part the profile of said slab;
 - ii. at least one reinforcement unit having at least one transversely oriented reinforcement member for reinforcing said panel member and interconnected to said panel member; said reinforcement member is adapted for supporting said form panel unit;

May-15-07 04:04pm From- T-920 P.033/040 F-60

Serial No. 10/629,746 Group Art Unit: 3635

Arndt. Dated: May 15, 2007

Reply to Office Action of January 16, 2007

-Page 27-

b) at least one rib member and oriented generally longitudinally configured to

reinforce said slab of said composite floor or roof made with said construction

material in said hardened state, and to assist in supporting said form panel unit when

fabricating slab of said composite floor or roof with said construction material in said

unhardened state;

said form panel unit being configured such that said panel member can be supported at

least partially by said at least one rib member, such that said unhardened construction

material can be retained above upper surface of said panel member to permit hardening

of said construction material from said unhardened state to said hardened state, said

reinforcement member oriented generally transversely to said at least one structural

supporting member and having a portion being mounted on said at least one rib member

such that said panel member is at least in part supported by said at least one rib member.

100. (New) A system as claimed in claim 99 wherein said at least one transversely oriented

reinforcement member supports said form panel unit by suspending said panel member

from said at least one rib member.

101. (New) A system as claimed in claim 100 wherein said at least rib member has a pair of

joined, upstanding webs configured in a generally U-shaped configuration, each

upstanding web having an upper elongated web portion, said upper web portions having

a plurality of spaced apertures disposed along said elongated upper web portion, and

being positioned so that hardened construction material will be received through said

Reply to Office Action of January 16, 2007

-Page 28-

apertures to anchor said at least one structural supporting member is said construction material.

- 102. (New) A system as claimed in claim 99 wherein said upper surface of said panel member has at least one longitudinally oriented downwardly extending portion.
- (New) A system as claimed in claim 1 wherein said at least one structural supporting member has a pair of joined, upstanding webs configured in a generally U-shaped configuration, each upstanding web having an upper elongated web portion, said upper web portions having a plurality of spaced apertures disposed along said elongated upper web portion, and being positioned so that hardened construction material will be received through said apertures to anchor said at least one structural supporting member is said construction material.
- 104. (New) An assembly as claimed in claim 55 wherein said panel member is made at least in part from a foam plastic.
- 105. (New) A system as claimed in claim 104 wherein said foam plastic is a foam polystyrene.
- 106. (New) An assembly as claimed in claim 91 wherein said panel member is made at least in part from a foam plastic.

Reply to Office Action of January 16, 2007

-Page 29-

- 107. (New) A system as claimed in claim 106 wherein said foam plastic is a foam polystyrene.
- 108. (New) A panel unit as claimed in claim 95 wherein said panel member is made at least in part from a foam plastic.
- 109. (New) A system as claimed in claim 108 wherein said foam plastic is a foam polystyrene.
- 110. (New) A panel unit as claimed in claim 95 wherein said reinforcement unit comprises first and second members and panel is compressed between said first and second members.
- 111. (New) A panel unit for use in fabricating a structural slab from a construction material having both unhardened and hardened states, the configuration of a lower surface of said slab having substantially the same shape as an upper surface of a panel member, said form panel unit comprising:
 - i. a panel member generally having an upper and lower surface, said panel member, being adapted to be used as part of a form to retain said construction material above said upper surface in an unhardened state;
 - ii. at least one reinforcement unit integrated with said panel member for reinforcing said panel member, said reinforcement unit having a generally transversely oriented reinforcement portion and a support portion interconnected to said reinforcement portion, said support portion having an exposed surface portion for supporting said panel member;

Reply to Office Action of January 16, 2007

-Page 30-

said panel unit being configured such that said panel member may be supported at least in part by said support portion and said reinforcement portion, by support on at least one structural supporting member, such that said unhardened construction material can be retained above and be supported at least in part by said panel member.

- 112. (New) A panel unit as claimed in claim 111 wherein support portion comprises a connecting member at least partly positioned within the panel member between the upper and lower surfaces of said panel member, said support portion also comprising a connector having a cap portion providing said exposed surface which assists in supporting said panel member at said lower surface of said panel member.
- 113. (New) A panel unit as claimed in claim 112 wherein said reinforcement portion is at least in part, positioned above said upper surface of said panel member and interconnected to said connecting member.
- 114. (New) A system as claimed in claim 91 wherein said at least at least one structural support member has a pair of webs configured in a generally U-shaped configuration, each web having an upper elongated web portion, said upper web portions having a plurality of spaced apertures disposed along said elongated upper web portion, and being positioned so that construction material will be received through said apertures to anchor said at least one structural supporting member is said construction material.

Serial No. 10/629,746 Group Art Unit: 3635 Amdt. Dated: May 15, 2007 Reply to Office Action of January 16, 2007

-Page 31-

- 115. (New) A system as claimed in claim 91 wherein said at least at least one structural support member has an elongated web having a plurality of spaced apertures disposed along said web, and said web being positioned so that construction material may be received through said apertures to anchor said at least one structural supporting member is said construction material.
- 116. (New) A panel unit as claimed in claim 113 wherein said panel member is held in compression between said upper member and said connector.
- 117. (New) A panel unit as claimed in claim 111 wherein said panel member has a longitudinally extending and downwardly oriented portion in said upper surface.
- 118. (New) A formwork assembly for fabricating a slab from a construction material having both unhardened and hardened states, said assembly comprising:

 a) a form panel unit comprising:
 - i. a panel member having an upper surface, said panel member being adapted to be used as part of a form to retain said construction material above said upper surface when in an unhardened state;
 - ii. a reinforcement unit having at least one reinforcement member, said reinforcement unit being associated with said panel member to support said panel member;

Reply to Office Action of January 16, 2007

-Page 32-

- b) at least one supporting member oriented generally longitudinally and adapted for assisting in supporting said form panel unit during fabrication of said slab; wherein at least part of the load resulting from unhardened construction material on said panel member is distributed from said panel member, transversely to said at least one supporting member by said at least one reinforcement member, such that said unhardened construction material can be retained above said panel member during said fabrication.
- 119. (New) A unit as claimed in claim 118 wherein said panel is made from an insulating material.
- 120. (New) A unit as claimed in claim 119 wherein said insulating material is a foam plastic.
- 121. (New) A form panel unit as claimed in claim 96, wherein said panel member comprises at least one abutting surface at said depression to abut another member to thereby form a channel.
- 122. (New) A form panel unit as claimed in claim 55, wherein said reinforcement unit comprises a rebar member.